## What is claimed is:

- 1 1. A heat-resistant plastic tube comprising:
- 2 a polyester-based elastomer which exhibits a change amount
- 3 in angle of ± 10° or less in a shape retainability performance
- 4 test, a change rate in inner diameter of  $\pm$  2% or less in
- 5 a dimensional stability performance test, and a change rate
- 6 in yield strength of  $\pm$  30% or less in a flexibility
- 7 retainability performance test.
- 1 2. The heat-resistant plastic tube according to Claim 1, wherein
- 2 the tube comprises a single layer comprising a
- 3 polyester-based elastomer.
- 1 3. The heat-resistant plastic tube according to Claim 1, wherein
- 2 the tube comprises:
- an inner layer comprising a polyester-based elestomer and
- 4 an outer layer formed on an outside of the inner layer and
- 5 comprising a crystalline polyester-based resin.
- 1 4. The heat-resistant plastic tube according to Claim 1, wherein
- 2 the tube comprises an inner layer comprising a crystalline
- 3 polyester-based resin and an outer layer formed on an outside
- 4 of the inner layer and comprising a polyester-based elastomer.
- 1 5. The heat-resistant plastic tube according to Claim 1, wherein

- the tube comprises at least an inner layer comprising a

  polyester-based elastomer, an intermediate layer formed on

  an outside of the inner layer and comprising a crystalline

  polyester-based resin, and an outer layer formed on an outside
- 6 of the intermediate layer and comprising a polyester-based
- 7 elastomer.
- 1 6. The heat-resistant plastic tube according to Claim 1, wherein
- 2 the tube is a fuel feed tube usable within an engine
- 3 compartment of a motor vehicle.
- 1 7. The heat-resistant plastic tube according to Claim 2, wherein
- 2 the tube is a fuel feed tube usable within an engine
- 3 compartment of a motor vehicle.
- 1 8. The heat-resistant plastic tube according to Claim 3, wherein
- 2 the tube is a fuel feed tube usable within an engine
- 3 compartment of a motor vehicle.
- 1 9. The heat-resistant plastic tube according to Claim 4, wherein
- 2 the tube is a fuel feed tube usable within an engine
- 3 compartment of a motor vehicle.
- 1 10. The heat-resistant plastic tube according to Claim 5, wherein
- 2 the tube is a fuel feed tube usable within an engine

- 3 compartment of a motor vehicle.
- 1 11. The heat-resistant plastic tube according to Claim 1, wherein
- 2 the tube further comprises a bellows portion extending at
- 3 least part of its length.
- 1 12. The heat-resistant plastic tube according to Claim 2, wherein
- 2 the tube further comprises a bellows portion extending at
- 3 least part of its length.
- 1 13. The heat-resistant plastic tube according to Claim 3, wherein
- 2 the tube further comprises a bellows portion extending at
- 3 least part of its length.
- 1 14. The heat-resistant plastic tube according to Claim 4, wherein
- 2 the tube further comprises a bellows portion extending at
- 3 least part of its length.
- 1 15. The heat-resistant plastic tube according to Claim 5, wherein
- 2 the tube further comprises a bellows portion extending at
- 3 least part of its length.
- 1 16. The heat-resistant plastic tube according to Claim 3, wherein
- 2 an innermost of the layers has a surface resistivity in a
- 3 range of from  $10^2$  to  $10^9$   $\Omega/\text{sq}$ .

- 1 17. The heat-resistant plastic tube according to Claim 4, wherein
- 2 an innermost of the layers has a surface resistivity in a
- 3 range of from  $10^2$  to  $10^9$   $\Omega/\text{sq}$ .
- 1 18. The heat-resistant plastic tube according to Claim 5, wherein
- 2 an innermost of the layers has a surface resistivity in a
- 3 range of from  $10^2$  to  $10^9$   $\Omega/\text{sq}$ .
- 1 19. The heat-resistant plastic tube according to Claim 13,
- wherein an innermost of the layers has a surface resistivity
- 3 in a range of from  $10^2$  to  $10^9 \Omega/\text{sq}$ .
- 1 20. The heat-resistant plastic tube according to Claim 14,
- wherein an innermost of the layers has a surface resistivity
- 3 in a range of from  $10^2$  to  $10^9$   $\Omega/sq$ .
- 1 21. The heat-resistant plastic tube according to Claim 15,
- wherein an innermost of the layers has a surface resistivity
- 3 in a range of from  $10^2$  to  $10^9 \Omega/\text{sq}$ .
- 1 22. A manufacturing method of the heat resistant plastic tube
- 2 according to Claim 1, the tube having a bent portion,
- 3 comprising steps of setting a body of a heat resistant plastic
- 4 tube in a thermal bending mold, heating the tube body in
- 5 the mold at 190°C or higher and cooling the tube body in

- 6 a state being set in the mold.
- 1 23. A manufacturing method of the heat-resistant plastic tube
- 2 according to Claim 2, the tube having a bent portion,
- 3 comprising steps of setting a body of a heat resistant plastic
- 4 tube in a thermal bending mold, heating the tube body in
- 5 the mold at 190°C or higher and cooling the tube body in
- 6 a state being set in the mold.
- 1 24. A manufacturing method of the heat resistant plastic tube
- 2 according to Claim 3, the tube having a bent portion,
- 3 comprising steps of setting a body of a heat resistant plastic
- 4 tube in a thermal bending mold, heating the tube body in
- 5 the mold at 190°C or higher and cooling the tube body in
- 6 a state being set in the mold.
- 1 25. A manufacturing method of the heat resistant plastic tube
- according to Claim 4, the tube having a bent portion,
- 3 comprising steps of setting a body of a heat resistant plastic
- 4 tube in a thermal bending mold, heating the tube body in
- 5 the mold at 190°C or higher and cooling the tube body in
- 6 a state being set in the mold.
- 1 26. A manufacturing method of the heat resistant plastic tube
- 2 according to Claim 5, the tube having a bent portion,

comprising steps of setting a body of a heat resistant plastic tube in a thermal bending mold, heating the tube body in the mold at 190°C or higher and cooling the tube body in a state being set in the mold.